Material Safety Data Sheet

Toluene Analytical Grade 25 Ltrs (RXSOL-60-1202-025)

1. Product and Company Identifaction

Product Name	:	RXSOL-60-1202-025
Product Type	:	Toluene AR
Chemical Family	:	Aromatic Hydrocarbon
Product Description	:	Clear Colourless

Company Details:

RX MARINE INTERNATIONAL
105, A wing , BSEL , TECH PARK.
VASHI ,NEW BOMBAY 400703 INDIA
Stock Point ::: Kandla, Mumbai, Kolkata, Chennai, Visakhapatnam, Fujairah

Phone	:	+91 22 27815541 / 42
Fax	:	+91 22 2781 1318 :::AOH :0091 9821214367
Email	:	mail@rxmarine.com

2. Composition / informationon ingredients

Name	CAS#	% by Weight
Toluene	F, Xn, R11, R20	100

3. Hazards Identification

Health Hazards	Harmful by Inhalation
Physical / Chemical And Fire Exploslon	From Flamable Mixtures.

4. First Aid Measures

Inhalation, Skin Contact, Eye Contact, Ingestion.

5. Fire-fighting Measures

Procedure	Use Water Spray To Cool Fire Exposed, Surfaces, Protect Personal, and Shut Of "Fuel" to Fire.Allow Fire To Burn Under Controlled Conditions, Extinguish With Alcohol Type Foam or Dry Chemical. Cover Liquid Spill With Foam.

6. Accidental Release Measures

- Eliminate Ignition Sources. Prevent Liquid Enters Seawers, Water Sources, Low Area.
- Spill With Sand Earth . Dilute Contalend Spill With Water. Dispose Recover Material Conforms To local Regulation.
- Keep Public Away.

7. Handling and Storage

Storage / Transport Tempreture : Amblent	Loading / Unloading Trempreture: Amblent
Loading / Unloading Viscosity: 0.64	Storage / Transport Pressure: Atmospheric
Electrostatics Accumulation Hazards: Yes	Shipping Containers: Rall Wagons, Tanks Trucks, Tankers, Burges, Drums.
Materials Suitable : Carbon Steel, Stainless Still, Polyesters, Teflon.	Materials Unsuitable: Natural Rubber, Butyl Rubber, EPDM, Polyestyrene, Polyethylene, Polyproplene, Polvinyl Chloride, Polyacylonitrite.

- Keep Container Closed,Store Cool And Well Ventilated, Open Slowly To Control Released Pressure.
- Keep Away From Flame, Direct Sunlight, Store Cool And Well Ventilated.
- Do Not Reuse Empty Containers W/OCleaning. Obserevs all Precauations For Empty Containers.

8. Exposure controls and personal protection

Engineering Control Measures / Ventilation	Use Local Exhaust Ventilation To Control process.Provide Mechanical Ventilation Of Confined Spaces. Use Explosion Proof Ventilation Equipment.
Occupational Expourse Limits (OEL) Values	TWA; 50ppm (188mg/m^{o}) (Skin) ACIGH (2000).
Personal Protection	Vapor Respirator, Gloves, Goggles, Full Suit, Footwear.

9. Physical and chemical properties

Physical State	: Liquid	Form / Color	: Clear Colorless
Odor	: Hydcarbon Odor	Odor Threshold	: N/A
Ph	: N/A	Freezing / Melting Point	: 95*c
Boiling Point Range	: 110-111* c	Flash Point (Tcc ASTM D 56)	: 5*c
Explosive Limits (In Air)	: 1.3-6.7 vol%	Vapor Presure (38*c)	: 7kPa
Auto Ignition Tempreture	: >630* c	Density (15*c)	: 0.865 kg / dm
Specific Gravity (15.0 / 15.0)	: 0.865	Vapour Density (101.3kPa/air=1)	: >1.00
Solubility In Water (25*c)	: 0.05 WT%	Material Hydroscope	: No
Viscosity (26*c)	: 0.64cST	Evaporator Rate (n- Bu Acetate=1)	: 2,400

Coeff, Of Thermal Expansion (Liq)	: 0.00106*c	Moiecular Weight	: 92

10. Stability and reactivity

Hazardous Pollymerization: No

Condition To Avoid Pollymerization : NA

Stability : Stable

Condition To Avoid Instability : NA

Materials and Conditions To Avoid: Strong Oxidizing agents
Hazardous Docompositions Products : None

11. Toxicological information

Inhalation	Irritating to Eyes and Respiratory tract, diziness, central nervous System Effects. Negllglble Hazard between -18*c to 38*c
Skin Contact	Dry Skin, Low Order Of Toxicity.
Eye Contact	Cause Eyes Discomfort But Will Not Injure Eye Issue.
Ingestion	Minimal Toxicity, Small Amounts May Cause bronchpneumonia or Pulmonary edema.

12. Ecological information

Enviromental Mobility	Highly Volatile and Will rapidly evaporate To The air If rleased Into The Water.
Enviromental Degradability	Biodegrade Rapidly, Remove In Wastewalar Treatment Facility.
Ecotoxicity and Bioaccumulation	Expected to Be Harmful to Aquatic Organisms

13. Disposal considerations

- Combine With Other Materials To Indicate another Roule Of Disposal
- Recycle, Recover Or Dispose Empty Drums Through a Suitably Qualified Or Licenced Contractor.
- Ensure Compliance With National And Local Regulation.
- Not Suitable For Disposal eighter Landfill or via muncipal seawers, Drains , Naturals Streams or Rivers, This Product is ash less and can be burned directly in apropriate equiptment.
- Contact Local TRansmare Chemical Company Supplier Or Local Authorities for More Information.

14. Transport information

	Land	Sea	Air
Class	3	3	3
Pg	II	II	II

Un Number	1294	1294	1294
Subsidlary Risk	Nil	Nil	Nil
Transport Document Name	Toluene, Glass3, UN 1294, PG II, (5*C c.c.)	Toluene, Glass3, UN 1294, PG II, (5*C c.c.)	Toluene
Others	Hazchem Code : 3YE	Marine Pollutant : No EMS Number : F-E. S-D Risk Label 3	

15. Regulatory information

Classification And Laeling
Classification / Symbol : Highly Flammable / F
Classification / Symbol : Harmful / Xn

Governing Directive : Dangerous Substances
Directive 67 / 648 / EC
Label Name : Toluene

Nature Of Special Risk:
R11: Highly Flammable
R20 Harmful By Inhalation

Safety Advise:
S07 / 09 : Keep Container Close & Well Ventilated.
S16 : Keep Away From Sourses Of Ignition.
S25 : Avoid Eye Contact.
S29 : Do Not Empty Into Drains.
S33 : Take Precautionary Measures Against Static Dicharges.
S43A :In Case Of Fire, Use Sand, Earth, Chemical Powder Alcohol Type Foam.

16. Other information

Since 07 July 2007, This MSDS Has Been Revised In Section (s) 2, 14, 15. This Information Relateds Only To The Material Designated And May Not Be Valid For Such Information Is To The Best Of Knowledge And Belleved Accurate And Reliable As Of The Date Indicated. However, no Represention, Warranty Or Guarentee Is Made as to Its Accuary, Reliability of Completeness. It Is The User's Responsibility to satesfy himself as to the suitability and completeness of such Information for his Own Particular Use.